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You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F6022. You'll find the answers to all your questions on the ICOM IC-F6022 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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INSTRUCTION MANUAL

VHF MOBILE TRANSCEIVER
IC-F5022
UHF MOBILE TRANSCEIVER
IC-F6022

MDC 1200
Compatible



icom Inc.



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Manual abstract:

If disregarded, inconvenience only. @@@@NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock. **WARNING!** NEVER connect the transceiver to a power source of more than 16 V DC such as a 24 V battery. This connection will run the transceiver. **DO NOT** operate the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out when the transceiver transmits while the vehicle's engine is OFF.

DO NOT place the transceiver in excessively dusty environments. **WARNING!** NEVER cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver might be damaged.

WARNING! NEVER place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury. **DO NOT** place the transceiver against walls. This will obstruct heat dissipation. **DO NOT** use chemical agents such as benzene or alcohol when cleaning, as they damage the transceiver surfaces. **BE CAREFUL!** The transceiver will become hot when operating continuously for long periods.

CAUTION! NEVER allow children to touch the transceiver. **CAUTION!** NEVER expose the transceiver to rain, snow or any liquids. USE the specified microphone only. Other microphones have different pin assignments and may damage the transceiver. Approved Icom optional equipments are designed for optimal performance when used with an Icom transceiver.

Icom is not responsible for the destruction or damage to an Icom transceiver in the event the Icom transceiver is used with equipment that is not manufactured or approved by Icom. **DO NOT** use or place the transceiver in areas with temperatures below 25°C or above +55°C, or in areas subject to direct sunlight, such as the dashboard. **TABLE OF CONTENTS IMPORTANT**

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@(2) w e Speaker 1 1. 2 3 4 5 6 7 8 9 1.0 1.1. @ (p.

11) w U./DOWN KEYS [CH Up]/[CH Down] Push to select an operating channel, etc. * The desired function can be assigned by your dealer. (p. 3) t MICRO.HONE CONNECTOR Connect the supplied or optional microphone. NEVER connect non-specified microphones. The pin assignments may be different and the transceiver may be damaged. D MICRO.HONE The supplied or optional microphone has a PTT switch and a hanger hook. · The following functions are available when the microphone is on or off hook (depending on the setting): - Automatic scan starts when it is on hook. - Scan is cancelled when it is off hook. - Scan is paused when it is off hook. - Automatic priority channel selection is available when it is off hook. - Sets to 'Inaudible' condition (mute condition) when it is on hook.

- Sets to 'Audible' condition (unmute condition) when it is off hook. e .OWER KEY [] Push to turn the power ON and OFF. · The following functions are available at power ON as options: - Automatic scan start - Password prompt - Set mode r DEALER-.ROGRAMMABLE KEYS Desired functions can be programmed independently by your dealer. (p. 3) 1 1 PANEL DESCRIPTION Function display qw e r t y u i y SCRAMBLER INDICATOR Appears when the voice scrambler function is activated. u BELL INDICATOR Appears/blinks when the specific 2/5-tone/MDC* code is received, according to the pre-programming. i SCAN INDICATOR Blinks during scan. o q TRANSMIT INDICATOR Appears while transmitting. w BUSY INDICATOR Appears while the channel is busy. e SIGNAL STRENGTH INDICATOR Indicates relative signal strength level as below. Weak Receive Signal level Strong o AL.HANUMERIC DISPLAY Displays an operating channel number, channel name, Set mode contents, DTMF code, etc.

* MDC operation only (p. 13) r LOW .OWER INDICATOR Appears when low output power is selected. t AUDIBLE INDICATOR Appears when the channel is in the 'Audible' (unmute) condition. Appears when the specific 2/5-tone/MDC* code is received.

2 PANEL DESCRIPTION 1 1. 2 3 4 5 6 7 8 9 1.0 1.1. 1.2 1.3 1.4 1.5 1.6 .

rogrammable function keys The following functions can be assigned to [U.], [DOWN], [0], [1.], [2] and [3] programmable function keys. @@@@CH UP

AND DOWN KEYS Push to select an operating channel. @@ Push to select a DTMF channel after pushing [DTMF Autodal]. @@@@ to indicate the scan list, then push [CH Up] or [CH Down] to select the desired list.

SCAN B START/STOP KEY Push to start and cancel scanning operation. The scan restarts after the specified time period has passed when the scan (started with this key) is cancelled by except for this key operation. Push and hold this key for 1 sec. to indicate the scan list, then push [CH Up] or [CH Down] to select the desired list. **SCAN ADD/DEL (TAG) KEY** Push to add/delete the selected channel to/from the scan list.

1. Push to indicate the scan group, then push [CH Up] or [CH Down] to select the desired list. 2. Push to add or delete the channel to/from the selected scan list. 3.

Push and hold for 1 sec. to exit the scan list selection mode. Push this key while scan is paused (a signal is detected) on a channel (except for priority channel), the channel is cleared from the scan list. Depending on the setting, the cleared channel is added to the scan list again after the scan is cancelled. 3 1 **PANEL DESCRIPTION LOCK KEY** Push and hold to electronically lock all programmable keys except the following: [Mon(Aud)], [Lock], [Call] (incl. Call A and Call B), [Emergency], [Surveillance], [Sren], [Lone Worker] and [OPT 1/2/3]. **PRIO A/B KEYS** Push to select Priority A or Priority B channel. Push and hold [Pro A (Rewrite)] or [Pro B (Rewrite)] for 1 sec. to rewrite the operating channel as the Priority A or Priority B channel. **MR-CH 1/2/3/4 KEYS** Push to select the memory channel 1 to 4 directly.

MONI (AUDI) KEY Push to mute and release the CTCSS (DTCS) or 2-tone squelch mute. Open any squelch/deactivate any mute while pushing and holding this key. (LMR operator only) Activates one of (or two of) the following functions on each channel independently: (PMR operator only) · Push and hold to unmute the channel (audio is emitted; 'Audible' condition). · Push to mute the channel (sets to 'Inaudible' only). · Push after the communication is finished to send a 'reset code'. (5-tone operator only) **LONE WORKER KEY** Push to turn the Lone Worker function ON or OFF. · If the Lone Worker function is activated, Emergency function is automatically turned ON after the specified time period has passed with no operation is performed. **HIGH/LOW KEY** Push to select the transmit output power temporarily or permanently, depending on the pre-setting. · Ask your dealer for the output power level for each selection. **NOTE:** The un-mute condition ('Audible' condition) may automatically return to the mute condition ('Inaudible' condition) after a specified period depending on programming.

C.TONE CH ENT KEY Push to enter the continuous tone channel selection mode. Then, push [CH Up]/[CH Down] to change the tone frequency/ code setting. The selected channel remains set as the continuous tone channel until another channel is designated as such. **TALK AROUND KEY** Push to turn the talk around function ON and OFF.

· The talk around function equalizes the transmit frequency to the receive frequency for transceiver-to-transceiver communication.



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4 PANEL DESCRIPTION WIDE/NARROW KEY Push to toggle the IF bandwidth between wide and narrow. The wide passband width can be selected from 25.0 or 20.0 kHz using the CS-F3020/F5020 cloning software.

@@@ Ask your dealer for details. @@@ And then select the desired DTMF channel using [CH Up]/[CH Down]. @@@@* Depending on the pre-setting. @@@@r Release [PTT] to return to receive. IM.ORTANT: To maximize the readability of your signal; 1. Pause briefly after pushing [PTT]. 2. @2 3 4 5 6 7 8 9 1.0 1.

1. @@@@w Push [CH Up] or [CH Down] to select the desired TX code channel. @@@@PTTID calls also available with the MDC 1200 signaling system. (p. 13) r Push [Call] to transmit the selected TX code. @e Push [CH Up] or [CH Down] to select the desired digit. r Push [TX Code Enter] to set. The digit to the right will blink automatically. t Repeat e and r to edit all allowable digits. @@@@r Push [CH Up] or [CH Down] to select the desired digit. t Push [TX Code CH Select] to set. The digit to the right will blink automatically. y Repeat r and t to edit all allowable digits. @Up to 8 DTMF channels are available. q Push [DTMF Autodial]-- a DTMF channel appears.

w Push [CH Up] or [CH Down] to select the desired DTMF channel. @In this case, all set mode items are available. @Entering the user set mode is received; Beeps sound. @@@@When a Revive command is received that matches your station ID, normal operation is restored. D Receiving a Stun and Revive with Turn power OFF, change the channel, push [PTT] for replying the call, etc.

@Contact your dealer about antenna selection and placement. w EXTERNAL S.EAKER JACK Connect a 48 ϕ external speaker. @ (See p. 1) Optional speaker q w e R WARNING! NEVER remove the fuse-holder from the DC power cable. @ DC .OWER RECE.TACLE Connects to a 12 V DC battery. Pay attention to polarities. R WARNING! NEVER connect to a 24 V battery.

@Crmp Solder CONNECTION AND MAINTENANCE 3 1. 2 3 4 5 6 7 8 9 1.0 1.1. 1.2 1.3 1.4 1.5 1.6 Supplied Accessories Microphone Microphone hanger and screw set Microphone hanger cable Mounting the transceiver The universal mounting bracket supplied with your transceiver allows overhead mounting. Mount the transceiver securely with the 4 supplied screws to a thick surface which can support more than 1.5 kg. Flat washer DC power cable Function name stickers* Mounting bracket Felt* Spring washer Flat washers Nuts Mounting screws (M5x12) Spring washers Bracket bolts Self-tapping screws (M5x20) Felt* When using self-tapping screws *Felts reduce the vibration effects. * Used for labelling the programmable function keys according to their assigned functions. 15 3 CONNECTION AND MAINTENANCE Antenna A key element in the performance of any communication systems is an antenna.

Contact your dealer for more information regarding antennas and how to install them. Options · O.C-1.1.32A/O.

C-347 dc power cable 2 fuse holders are attached. USE the 20 A fuse only. OPC-1132A : 3 m (9.8 ft) OPC-347 : 7 m (23 ft) · O.C-1.939 acc cable Allows you to connect to an external terminal. · HM-1.52/HM-1.52T/HM-1.48G/HM-1.

48T hand microphone HM-152 : Hand microphone HM-152T : DTMF microphone HM-148G : Self ground heavy duty microphone HM-148T : Self ground heavy duty microphone with 10-keypad The 10-keypad of this microphone can be used for the DTMF code transmission only. · SM-25 desktop microphone · S.-5/S.-1.0/S.-22 external speaker Input impedance : 4 ϕ Max. input power : 5 W SP-5 : Large speaker for good audio quality. SP-10 : For all-round mobile operation. SP-22 : Compact and easy-to-install. · UT-1.

08R dtmf decoder unit Provides pager and code squelch capabilities. · UT-1.09R/UT-1.1.0R scrambler units Non-rolling type (UT-109R)/Rolling type (UT-110R) voice scrambler unit provides higher communication security.

Fuse replacement A fuse is installed in the supplied DC power cable. If a fuse blows or the transceiver stops functioning, track down the source of the problem if possible, and then replace the damaged fuse with a new rated one. Fuse rating: 10 A USE the 10 A fuse only. Cleaning If the transceiver becomes dusty or dirty, wipe it clean with a soft, dry cloth. @Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan 4 1.

2 3 4 5 6 7 8 9 1.0 1.1. 1.2 1.3 1.4 1.5 1.6 0168 Düsseldorf 15th Jan. @@@@Furukawa General Manager Signature CE Versions of the IC-F5022 and the IC-F6022 which display the "CE" symbol on the serial number label, comply with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/EC.

This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing conditions in the country of use. Be sure to check that you have the correct version of this radio or the correct programming of this radio, to comply with national licensing requirements. 17 4 DOC DECLARATION OF CONFORMITY We Icom Inc. Japan 1-1-32, Kamiminami, Hirano-ku Osaka 547-0003, Japan 0168 Düsseldorf 13th Mar. @Kind of equipment: Type-designation: UHF TRANSCEIVER IC-F6022 400470 MHz 12.5 kHz/25 kHz 400470 MHz 12.5 kHz/20 kHz Authorized representative name Version (where applicable): This compliance is based on conformity with the following harmonised standards, specifications or documents: i) EN 301 489-1 v1.6.1 (September 2005) ii) EN 301 489-5 v1.3.

1 (August 2002) iii) EN 300 086-2 v1.1.1 (March 2001) iv) EN 300 219-2 v1.1.1 (March 2001) v) EN 300 113-2 v1.

3.1 (December 2003) vi) EN 60950-1: 2001 vii) viii) Y. Furukawa General Manager Signature 18 DOC · List of Country codes (ISO 31.66-1.) Country 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Austria Belgium Bulgaria Croatia Czech Republic Cyprus Denmark Estonia Finland France Germany Greece Hungary Iceland Ireland Italy Latvia Codes AT BE BG HR CZ CY DK EE FI FR DE GR HU IS IE IT LV 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 Country Liechtenstein Lithuania Luxembourg Malta Netherlands Norway Poland Portugal Romania Slovakia Slovenia Spain Sweden Switzerland Turkey United Kingdom Codes LI LT LU MT NL NO PL PT RO SK SI ES SE CH TR GB 4 1.

2 3 4 5 6 7 8 9 1.0 1.1. 1.2 1.3 1.4 1.5 1.6 About e-marking: Detailed installation notes for Icom mobile transceivers to be fitted into vehicles are available. Please contact your Icom dealer or distributor.

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